



STIC Search Report

EIC 1700

STIC Database Tracking Number: 156471

**TO: Margaret Einsmann
Location: REM 9A49
Art Unit : 1751
June 28, 2005**

Case Serial Number: 10/647827

**From: Kathleen Fuller
Location: EIC 1700
REMSEN 4B28
Phone: 571/272-2505
Kathleen.Fuller@uspto.gov**

Search Notes

=> file reg

FILE 'REGISTRY' ENTERED AT 12:20:02 ON 28 JUN 2005

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STRUCTURE FILE UPDATES: 27 JUN 2005 HIGHEST RN 853049-67-9

DICTIONARY FILE UPDATES: 27 JUN 2005 HIGHEST RN 853049-67-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file hcapl

FILE 'HCAPLUS' ENTERED AT 12:20:10 ON 28 JUN 2005

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FILE COVERS 1907 - 28 Jun 2005 VOL 143 ISS 1

FILE LAST UPDATED: 27 Jun 2005 (20050627/ED)

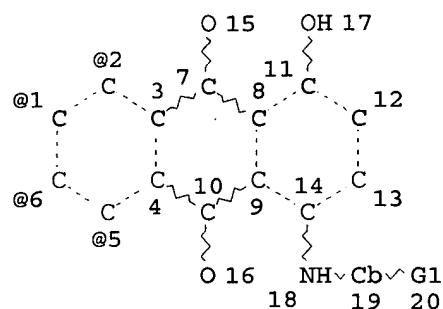
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que

L1

STR

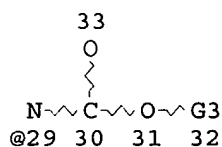


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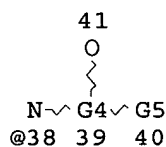
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S~Ak
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G6

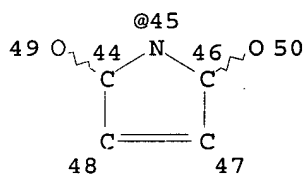


O~C~N~Ak
34 @35 36 37



C=C
@42 43

OH@



NO2 @53

Page 1-A

51

*6 structures
from
this query*

*1 CA reference
to
applicant*

52

Page 1-B

VAR G1=23/25/27/29/35/38

VAR G2=O/N/S

VAR G3=AK/CB

VAR G4=C/S

VAR G5=AK/CB

VAR G6=42/45

VPA 52-1/2/5/6 U

VPA 53-1/2/5/6 U

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 15

CONNECT IS E1 RC AT 16

CONNECT IS E1 RC AT 49

CONNECT IS E1 RC AT 50

DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 19
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 51

STEREO ATTRIBUTES: NONE
L2 6 SEA FILE=REGISTRY SSS FUL L1
L3 1 SEA FILE=HCAPLUS ABB=ON L2

=> d 13 all hitstr

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:181779 HCAPLUS
DN 142:263069
ED Entered STN: 04 Mar 2005
TI Ethylenically-unsaturated blue anthraquinone dyes
IN Pearson, Jason Clay; Weaver, Max Allen; Fleischer, Jean Carroll; King,
Greg Alan
PA USA
SO U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM C09B001-00
INCL 008643000
CC 41-4 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic
Sensitizers)
Section cross-reference(s): 37

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005044644	A1	20050303	US 2003-647827	20030825
	WO 2005021663	A1	20050310	WO 2004-US26699	20040817
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2003-647827 A 20030825

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005044644	ICM	C09B001-00
	INCL	008643000
US 2005044644	NCL	008/643.000
	ECLA	C09B069/10B
WO 2005021663	ECLA	C09B069/10B

AB This invention pertains to certain novel colorant compds. containing one or
more ethylenically-unsatd., photopolymerizable radicals that may be
copolymd. (or cured) with ethylenically-unsatd. monomers to produce

colored compns. such as colored acrylic polymers. Suitable compns. having the present colorants copolymerized therein include, e.g., polymers produced from acrylate and methacrylate esters, colored polystyrenes, and similar colored polymeric materials derived from other ethylenically-unsaturated monomers. The present invention also pertains to processes for preparing the photopolymerizable colorant compounds. The ethylenically unsaturated colorant compounds may be suitable for use in coatings that are applied to wood, glass, metal, thermoplastics and the like. Thus, heating 2.03 g 1,5-dihydroxy-8-nitro-4-[(3'-hydroxymethyl)anilino]anthraquinone with 1.06 g 3-isopropenyl- α,α -dimethylbenzyl isocyanate in 35 mL toluene in the presence of 4 drops dibutyltin dilaurate with stirring at 90° for 2.5 h gave a dye.

ST polymerizable anthraquinone dye manufacturing colored acrylic polymer

IT Epoxy resins, preparation

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(acrylic; manufacture of ethylenically-unsaturated blue anthraquinone dyes useful for colored acrylic polymers)

IT Coating materials

Dyes

(manufacture of ethylenically-unsaturated blue anthraquinone dyes useful for colored acrylic polymers)

IT 845858-61-9P 845858-62-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manufacture of ethylenically-unsaturated blue anthraquinone dyes useful for colored acrylic polymers)

IT 845858-57-3P 845858-58-4P 845858-59-5P

845858-60-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(manufacture of ethylenically-unsaturated blue anthraquinone dyes useful for colored acrylic polymers)

IT 760-93-0, Methacrylic anhydride 2094-99-7, 3-Isopropenyl- α,α -dimethylbenzyl isocyanate 3263-46-5 3263-48-7 15791-78-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(manufacture of ethylenically-unsaturated blue anthraquinone dyes useful for colored acrylic polymers)

IT 845858-61-9P 845858-62-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manufacture of ethylenically-unsaturated blue anthraquinone dyes useful for colored acrylic polymers)

RN 845858-61-9 HCAPLUS

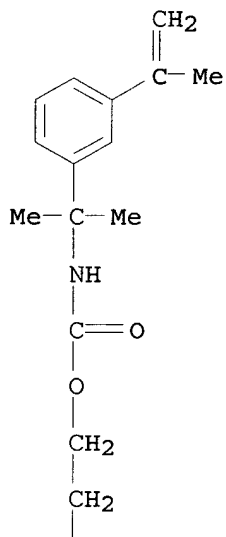
CN 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-[4-[(9,10-dihydro-4,5-dihydroxy-8-nitro-9,10-dioxo-1-anthracenyl)amino]phenyl]ethyl [1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]carbamate, Jagalux UV 1500, (1-methylethylidene)di-4,1-phenylene di-2-propenoate and oxybis(methyl-2,1-ethanediyl) di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

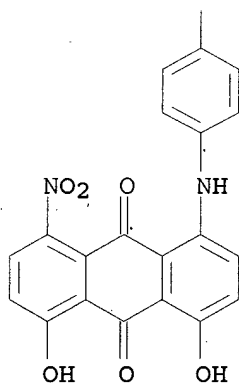
CRN 845858-59-5

CMF C35 H31 N3 O8

PAGE 1-A



PAGE 2-A



CM 2

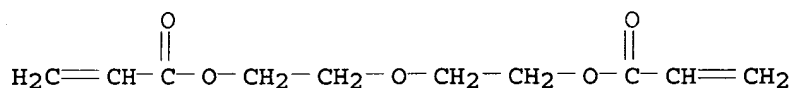
CRN 397330-79-9
CMF Unspecified
CCI PMS, MAN

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CM 3

CRN 57472-68-1

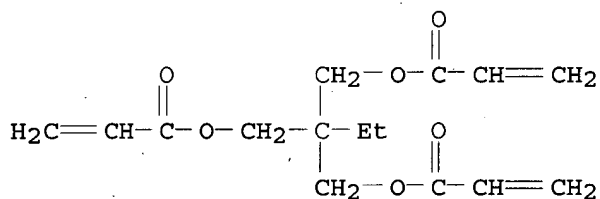
CMF C12 H18 O5
CCI IDS



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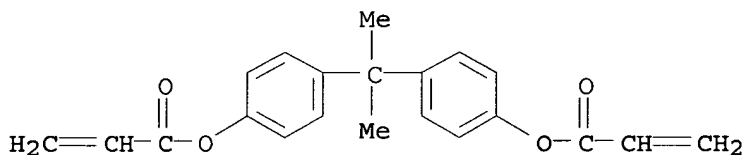
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CRN 15625-89-5
CMF C15 H20 O6



CM 5

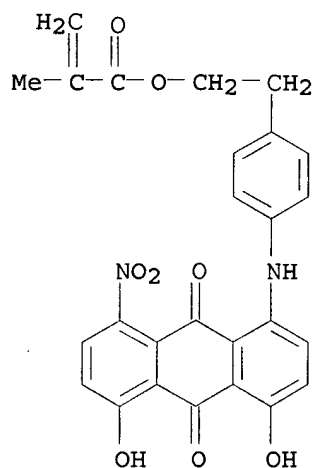
CRN 4491-03-6
CMF C21 H20 O4



RN	845858-62-0	HCAPLUS
CN	2-Propenoic acid, 2-methyl-, 2-[4-[(4,5-dihydroxy-9,10-dihydro-8-nitro-9,10-dioxo-1-anthracenyl)amino]phenyl]ethyl ester, polymer with 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, Jagalux UV 1500, (1-methylethylidene)di-4,1-phenylene di-2-propenoate and oxybis(methyl-2,1-ethanediy) di-2-propenoate (9CI) (CA INDEX NAME)	

CM 1

CRN 845858-60-8
CMF C26 H20 N2 O8



CM 2

CRN 397330-79-9

CMF Unspecified

CCI PMS, MAN

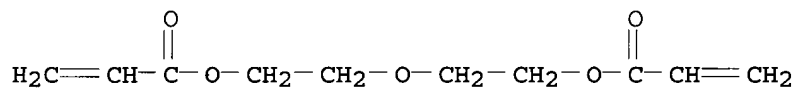
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CM 3

CRN 57472-68-1

CMF C12 H18 O5

CCI IDS

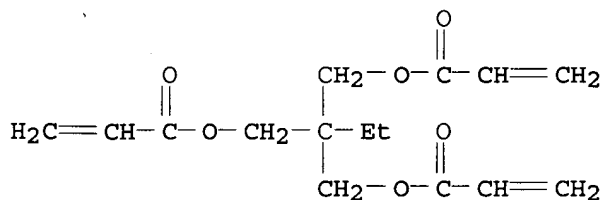


2 (D1-Me)

CM 4

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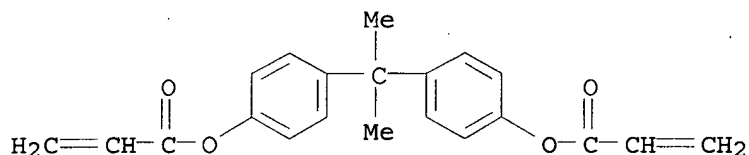
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CM 5

CRN 4491-03-6

CMF C21 H20 O4



IT 845858-57-3P 845858-58-4P 845858-59-5P

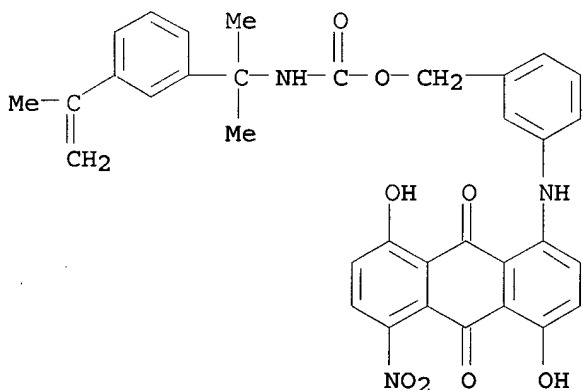
845858-60-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(manufacture of ethylenically-unsatd. blue anthraquinone dyes useful for colored acrylic polymers)

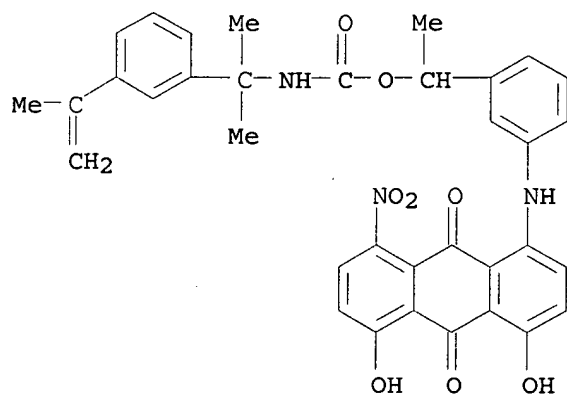
RN 845858-57-3 HCAPLUS

CN Carbamic acid, [1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]-, [3-[(9,10-dihydro-4,8-dihydroxy-5-nitro-9,10-dioxo-1-anthracenyl)amino]phenyl]methyl ester (9CI) (CA INDEX NAME)



RN 845858-58-4 HCAPLUS

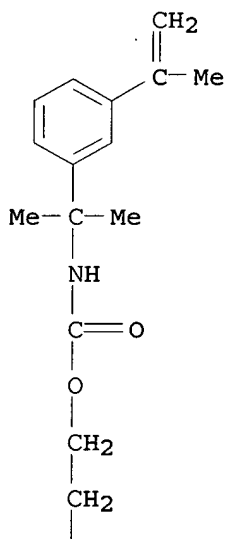
CN Carbamic acid, [1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]-, 1-[3-[(9,10-dihydro-4,5-dihydroxy-8-nitro-9,10-dioxo-1-anthracenyl)amino]phenyl]ethyl ester (9CI) (CA INDEX NAME)



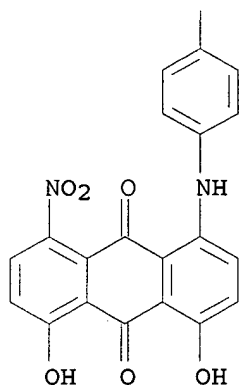
RN 845858-59-5 HCAPLUS

CN Carbamic acid, [1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]-,
 2-[4-[(9,10-dihydro-4,5-dihydroxy-8-nitro-9,10-dioxo-1-
 anthracenyl)amino]phenyl]ethyl ester (9CI) (CA INDEX NAME)

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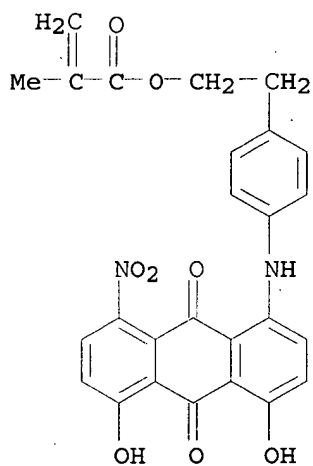


PAGE 2-A



RN 845858-60-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[4-[(9,10-dihydro-4,5-dihydroxy-8-nitro-9,10-dioxo-1-anthracenyl)amino]phenyl]ethyl ester (9CI) (CA INDEX NAME)



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